



Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN			
				Application Number			
				Filing Date		September 12, 2003	
				First Named Inventor		Xavier	
				Group Art Unit			
				Examiner Name			
Sheet	1	of	2	Attorney Docket Number		SD6909.1/S97535	
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	<u>U.S. Patent Document</u> Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
MCJ		5,537,119	A	A.B. Poore, Jr.	07/16/1996		
MCJ		5,675,720	A	Y. Sato, et al.	10/07/1997		
MCJ		6,054,991	A	C.A. Crane, et al.	04/25/2000		
MCJ		6,099,573	A	P.G. Xavier	08/08/2000		
MCJ		6,285,505	B1	A. Guzzie Melville et al.	09/04/2001		
MCJ		6,407,748	B1	P.G. Xavier	06/18/2002		
MCJ		6,535,215	B1	L.C. DeWitt, et al.	03/18/2003		
MCJ		6,577,925	B1	M.P.J. Fromherz	06/10/2003		
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	<u>Foreign Patent Document</u> Office ³ Number ⁴ Kind Code ⁵ (if known)			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
Examiner Signature					Date Considered		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[G:\ANNETTE\SD6909-1449p1.PTO.doc]

1. Unique citation designation number. 2. See attached Kinds of U.S. Patent Documents. 3. Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 4. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6. Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box



PTO/SB/08B (10-96)

Approved for use through 10-31-99. OMB 0651-003

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN	
				Application Number	
				Filing Date	September 12, 2003
				First Named Inventor	Xavier
				Group Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	SD6909.1/S97535

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
MCJ		CAMERON, "Collision Detection by 4D Intersection Testing," <i>Int'l J of Robotics Research</i> , Vol. 6, No. 3, pp 291-302 (June 1990)	
MCJ		CANNY, J., "Collision Detection for Moving Polyhedra," <i>IEEE Trans. On Pattern Analysis and Machine Intelligence</i> , Vol. 8, No. 2, pp 200-209 (1986)	
MCJ		FUCHS, et al., "On Visible Surface Generation by a Priori Tree Structures," <i>Proc. Of ACM SIGGRAPH</i> , pp 124-144 (1980)	
MCJ		GILBERT, et al., "Computing the Distance Between General Convex Objects in Three-Dimensional Space," <i>IEEE Trans. On Robotics and automation</i> , Vol. 6, No. 1, pp 53-61 (Feb 1990)	
MCJ		GOTTSCHALK, et al., "OBB-Tree: A hierarchical Structure for Rapid Interference Detection," <i>Proc. ACM SIGGRAPH '96</i> , pp 171-180 (August 1996)	
MCJ		SATO, et al., "Efficient Collision Detection Using Fast Distance Calculation Algorithms for Convex and Non-Convex objects," <i>Proc. 1996 IEEE Int'l Conf on Robotics and Automation</i> , Minneapolis, Minnesota, pp 771-778 (April 1996)	
MCJ		XAVIER, P.G., "Implicit Convex-Hull Distance of Finite-Screw-Swept Volumes, 2002 IEEE Int'l Conf on Robotics and Automation (CRA) (May 2002)	
MCJ		XAVIER, P.G., "Fast Swept-Volume Distance for Robust Collision Detection," <i>1977 IEEE Int'l Conf on Robotics and Automation</i> , (1977)	

Examiner Signature	Mary C. Jacob	Date Considered	7/12/06
--------------------	---------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[G:\ANNETTE\SD6909-1449p2.PTO.doc]

¹ Unique citation designation number. 2. Applicant is to place a check mark here if English language Translation is attached.